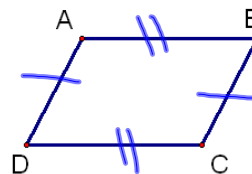


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6.3 Showing Quadrilaterals are Parallelograms

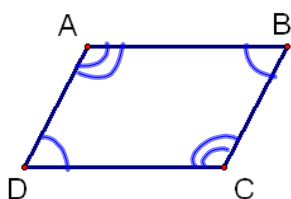
Theorem 6.6

If both pairs of opposite sides are \cong , then the quadrilateral is a parallelogram.



Theorem 6.7

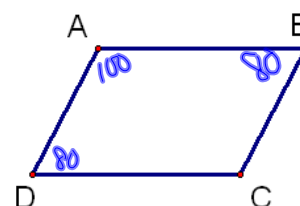
If both pairs of opposite \angle s are \cong , then the quadrilateral is a parallelogram.



Theorem 6.8

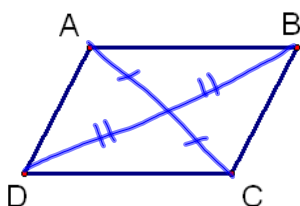
If consecutive \angle s are supplementary, then the quadrilateral is a parallelogram.

Need 3 \angle s
2 consecutive
total 180



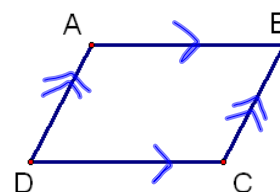
Theorem 6.9

If the diagonals bisect each other, then the quadrilateral is a parallelogram.



Parallelogram--If a quadrilateral has both pairs of opposite sides parallel, then it is a parallelogram

(def. of a parallelogram)



5 Ways to show a quadrilateral is a parallelogram

A. Definition of a parallelogram



B. Both pairs of opposite sides are \cong



C. Both pairs of opposite angles are \cong



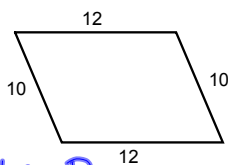
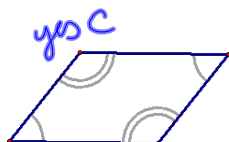
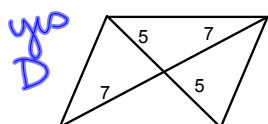
D. Diagonals bisect each other



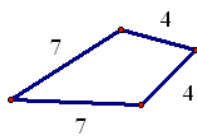
E. Consecutive angles are supplementary



32s
numbers vary

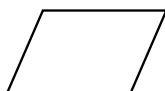
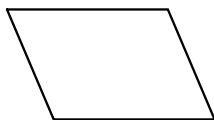
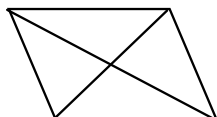
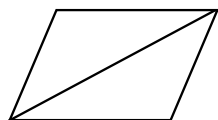


yes B



No

ws examples



HW p.320-321 #s 5-19